RECEIVED CENTRAL FAX CENTER JAN 0 3 2007

This listing of claims will replace all prior versions and listings of claims in the application.

CLAIM LISTING

1. (Currently amended) A compound of formula I

wherein

each n is one or two independently

 R^1 is C=O; C=S; C_1 - C_2 alkylene optionally substituted with one or more R^4 independently; C_2 alkynylene; C_3 - C_7 cycloalkylene optionally substituted with one or more R^4 independently; C_3 - C_7 cycloheteroalkylene optionally substituted with one or more R^4 independently; arylene optionally substituted with one or more R^4 independently; arylene C_1 - C_3 alkylene optionally substituted with one or more R^4 independently; heteroarylene optionally substituted with one or more R^4 independently; heteroarylene optionally substituted with one or more R^4 independently; heteroarylene optionally substituted with one or more R^4 independently; perhalo C_1 - C_{10} alkylene; and, perhalo C_1 - C_{10} alkyloxyene;

 R^2 is H; C_1 alkyl optionally substituted with one or more R^4 independently; C_2 - C_7 alkenyl optionally substituted with one or more R^4 independently; C_2 - C_7 alkynyl optionally substituted with one or more R^4 independently; C_3 - C_7 cycloalkyl optionally substituted with one or more R^4 independently; C_3 - C_7 cycloheteroalkyl optionally substituted with one or more R^4 independently; aryl optionally substituted with one or more R^4 independently; aryl C_1 - C_3 alkyl optionally substituted with one or more R^4 independently; heteroaryl C_1 - C_3 alkyl

optionally substituted with one or more R⁴ independently; heteroaryl optionally substituted with one or more R⁴ independently, -SH; -SR⁵; SOR⁵; SO₂R⁵; -CHO; -CH(OR⁵)₂; carboxy; -CO₂R⁴; NHCONNH₂; -NHCSNH₂; -NHCONH₂; -NHCOR⁴; -NHSO₂R⁵; -O-CO-(C₁-C₅) alkyl optionally substituted with one or more R⁴ independently; cyano; nitro; halogen; hydroxy; perhalo C₁-C₇ alkyl; perhalo C₁-C₇ alkyloxy; -SO₂NH₂; -SO₂NH(R⁵); -SO₂(R⁵)₂; -CONH₂; -CON₂H₃; -CONH(R⁵); -CON(R⁵)₂; C₁-C₁₀ alkyloxy optionally substituted with R⁴ independently; C₂-C₁₀ alkenyloxy optionally substituted with R⁴ independently; heteroaryloxy optionally substituted with R⁴ independently; heteroaryloxy optionally substituted with R⁴ independently;

R³ is H; C₁-C₁₀ alkyl optionally substituted with one or more R⁴ independently; C₂-C₁₀ alkenyl optionally substituted with one or more R⁴ independently; C₂-C₁₀ alkynyl optionally substituted with one or more R⁴ independently; C₃-C₇ cycloalkyl optionally substituted with one or more R4 independently; C3-C7 cycloheteroalkyl optionally substituted with one or more R⁴ independently; anyl optionally substituted with one or more R⁴ independently; anyl C₁-C₃ alkyl optionally substituted with one or more R⁴ independently; heteroaryl C₁-C₃ alkyl optionally substituted with one or more R⁴ independently; heteroaryl optionally substituted with one or more R⁴ independently; C₁-C₁₀ alkyl-NH(CH₂)₁₋₄NH-aryl optionally substituted with one or more R⁴ independently; C₁-C₁₀ alkyl-NH(CH₂)₁₋₄NH-heteroaryl optionally substituted with one or more R⁴ independently; C₁-C₁₀ alkyl-O(CH₂)₁₋₄NH-aryl optionally substituted with one or more R⁴ independently; C₁-C₁₀ alkyl-O(CH₂)₁₋₄NH-heteroaryl optionally substituted with one or more R4 independently; C1-C10 alkyl-O(CH2)14O-aryl optionally substituted with one or more R4 independently; C1-C10 alkyl-O(CH2)1-4Oheteroaryl optionally substituted with one or more R4 independently; C1-C10 alkyl-S(CH2)1. 4NH-aryl optionally substituted with one or more R4 independently; C1-C10 alkyl-S(CH2)1-4NH-heteroaryl optionally substituted with one or more R⁴ independently; C₁-C₁₀ alkyl-S(CH₂)₁₋₄S-aryl optionally substituted with one or more R⁴ independently; C₁-C₁₀ alkyl-S(CH₂)₁₋₄S-heteroaryl optionally substituted with one or more R⁴ independently; C₁-C₁₀ alkyl-O-C₁-C₅alkyl optionally substituted with one or more R⁴; -NHCOR⁴; -NHSO₂R⁵; -O-CO-(C₁-C₅) alkyl optionally substituted with one or more R⁴ independently; -SH; -SR⁵; -SOR⁵; -SO₂R⁵; -CHO; -CH(OR⁵)₂; carboxy; cyano; nitro; halogen; hydroxy; -SO₂NH₂; -SO₂NH(R⁵);

 $-SO_2N(R^5)_2$; $-CONH_2$; $-CONH(R^5)$; $-CON(R^5)_2$; $-CSNH_2$; $-CONHNH_2$; $-CO_2R^4$; $-NHCNHNH_2$; $-NHCSNH_2$; $-NHCONH_2$;

R⁴ is C₁ alkyl optionally substituted with one or more R⁸ independently; C₂-C₁₀ alkenyl optionally substituted with one or more R⁸ independently; C2-C10 alkynyl optionally substituted with one or more R⁸ independently; C₃-C₇ cycloalkyl optionally substituted with one or more R⁸ independently; C₃-C₇ cycloheteroalkyl optionally substituted with one or more R⁸ independently; aryl optionally substituted with one or more R⁸ independently; heteroaryl optionally substituted with one or more R² independently; amino; amino substituted with one or more C₁-C₁₀ alkyl optionally substituted with one or more R⁸; amino substituted with one or two aryl optionally substituted with one or more R⁸ independently; heteroaryl optionally substituted with one or more R⁸ independently; =0; =S; -CO-R⁵; -COOR⁵; -O-CO-(C₁-C₅) alkyl optionally substituted with one or more R⁸ independently: NH(CH₂)₁₋₄NH-aryl; NH(CH₂)₁₋₄NH-heteroaryl; -NHCOR⁵; -SOR⁵; SO₂R⁵; carboxy; cyano; N-hydroxyimino; nitro; halogen; hydroxy; perhalo C₁-C₁₀ alkyl; perhalo C₁-C₁₀ alkyloxy; -SH; $-SR^5$; $-SO_3H$; $-SO_2R^5$; $-SO_2NH_2$; $-SO_2NH(R^5)$; $-SO_2N(R^5)_2$; $-CONH_2$; $-SO_2N(R^5)_2$; $-SO_2N(R^5)$ CONH(R⁵); -CON(R⁵)₂; C₁-C₁₀ alkyloxy optionally substituted with one or more R⁸ independently; C₂-C₁₀ alkenyloxy optionally substituted with one or more R⁸ independently; C₂-C₁₀ alkynyloxy optionally substituted with one or more R⁸ independently; aryloxy optionally substituted with one or more R⁸ independently; heteroaryloxy optionally substituted with one or more R⁸ independently: and when two R4 are attached to the same carbon atom, they, together with the carbon atom, may form a spiroheterocyclic system selected from hydantoin; thiohydantoin; and oxazolidine-2,5-dione;

 R^5 is C_1 - C_{10} alkyl optionally substituted with one or more R^8 independently; C_2 - C_{10} alkenyl optionally substituted with one or more R^8 independently; C_2 - C_{10} alkynyl optionally substituted with one or more R^8 independently; C_3 - C_7 cycloalkyl optionally substituted with one or more R^8 independently; C_3 - C_7 cycloheteroalkyl optionally substituted with one or more R^8 independently; aryl optionally substituted with one or more R^8 independently; aryl C_1 - C_5 alkyl optionally substituted with one or more R^8 independently; heteroaryl optionally

substituted with one or more R^8 independently; heteroaryl C_1 - C_5 alkyl optionally substituted with one or more R^8 independently;

 R^6 is H; C_1 - C_{10} alkyl optionally substituted with one or more R^4 independently; C_2 - C_{10} alkeryl optionally substituted with one or more R^4 independently; C_2 - C_{10} alkynyl optionally substituted with one or more R^4 independently; C_3 - C_7 cycloalkyl optionally substituted with one or more R^4 independently; C_3 - C_7 cycloheteroalkyl optionally substituted with one or more R^4 independently; aryl optionally substituted with one or more R^4 independently; heteroaryl optionally substituted with one or more R^4 independently;

 R^7 is H; C_1 - C_{10} alkyl optionally substituted with one or more R^4 independently; C_2 - C_{10} alkenyl optionally substituted with one or more R^4 independently; C_2 - C_{10} alkynyl optionally substituted with one or more R^4 independently; C_3 - C_7 cycloalkyl optionally substituted with one or more R^4 independently; C_3 - C_7 cycloheteroalkyl optionally substituted with one or more R^4 independently; aryl optionally substituted with one or more R^4 independently; heteroaryl optionally substituted with one or more R^4 independently;

R⁸ is H [[,]]; amidoxime, nitro [[,]]; tetrazole; pentafluorophenyl; -CH₂OH; -CHO; -COCH₃; -CF₃; -CCl₃; -OCF₃; -OCH₃; -CN; -CO₂CH₃; -CONH₂; -CSNH₂; -CON₂H₃; -SO₃H; -SO₂NH₂; -SO₂NHCH₃; -SO₂N(CH₃)₂; -SO₂ (1-piperazinyl); -SO₂ (4-methylpiperazin-1-yl); -SO₂ (pyrrolidin-1-yl); -SO₂ (morpholin-4-yl); N-hydroxyimino; -NH₂; -NHCH₃; -N(CH₃)₂; -NHCNHNH₂; -NHCNHNHCH₃; -NHCSNH₂; -NHCSNHCH₃; -NHCONH₂; -NHCONHCH₃; -NHCONH₂; -NHCONHCH₃; -NHCOCH₃; -NHSO₂CH₃; piperazinyl; morpholin-4-yl; thiomorpholin-4-yl; pyrrolidin-1-yl; piperidin-1-yl; halogen; -OH; -SH; -SCH₃; -aminoacetyl; -OPO₃H₂; OPO(OH)(OCH₃); -PO₃H₂; -PO(OCH₃)₂; PO(OH)(OCH₃);

 R^9 is H; halogen; C_1 - C_{10} alkyl optionally substituted with one or more R^4 independently R^{10} is H; halogen:

or, R⁹ and R¹⁰, together with the carbon atom to which they are attached, may be connected to form a cyclopropyl ring;

or a salt thereof with a pharmaceutically acceptable acid or base;

with the exception of the following compounds:

- 7-(3-Chloro-propyl)-1,3-dimethyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione;
- 7-(3-Amino-propyl)-1,3-dimethyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione;
- 3-(1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydro-purin-7-yl)-propionaldchyde;
- 1,3-dimethyl-7-(2-oxo-propyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione.
- 1,3,1',3',7'-pentamethyl-8-piperazin-1-yl-3,7,3',7'-tetrahydro-7,8'-methanediyl-bis-purine-2,6-dione,
- 7-[2-Hydroxy-3-(4-methoxy-phenoxy) -propyl]-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 7-[2-hydroxy-2-(4-nitro-phenyl) -ethyl]-3-methyl-8-piperazin-1-yl-3,7,8,9-tetrahydro-purine-2,6-dione,
- 7-Benzyl-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 7-(4-Chloro-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 7-(2-Chloro-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione.
- 7-Ethyl-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 3-Methyl-8-piperazin-1-yl-1,7-dipropyl-3,7-dihydro-purine-2,6-dione,
- 3-Methyl-7-(3-methyl-butyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione.
- 7-Butyl-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 3-Methyl-7-(3-phenyl-propyl)-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 7-But-2-enyl-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 7-(3-Chloro-but-2-enyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 3-Methyl-7-(1-phenyl-ethyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 3-Methyl-7-(3-methyl-benzyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione, and
- 3-Methyl-7-propyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione.

- 2. (Original) A pharmaceutical composition comprising at least one compound according to claim 1 together with a pharmaceutically acceptable carrier or diluent.
- 3. (Previously presented) A compound according to claim 1 selected from the following:
- 7-Benzyl-8-(6-hydroxymethyl-[1,4]diazepan-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- 7-Benzyl-8-(6-hydroxy-[1,4]diazepan-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- 7-Benzyl-8-(3-hydroxymethyl-[1,4]diazepan-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- 7-Benzyl-1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 1,3-Dimethyl-7-(4-methylbenzyl) -8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 3-(1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydropurin-7-ylmethyl) benzonitrile,
- 2-(1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydropurin-7-ylmethyl) benzonitrile,
- 1,3-Dimethyl-7-(I-phenylethyl) -8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 7-(2-Iodobenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 1,3-Dimethyl-8-piperazin-1-yl-7-(2-trifluoromethylbenzyl) -3,7-dihydropurine-2,6-dione,
- 1,3-Dimethyl-7-naphthalen-1-ylmethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 1,3-Dimethyl-7-naphthalen-2-ylmethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 7-(3-Bromobenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 7-Benzyl-8-(3-isopropylpiperazin-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- 7-Benzyl-8-[1,4]diazepan-1-yl-1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- 1,3-Dimethyl-7-(2-oxo-2-pyrrolidin-1-yl-ethyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 2-(8-[1,4]Diazepan-1-yl-1,3-dimethyl-2,6-dioxo-1,2,3,6-tetrahydro-purin-7-ylmethyl) benzonitrile,
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl) -1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- 7-(2-Difluoromethoxy-benzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 7-(2,3-Dimethoxy-benzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione, and
- 1,3-Dimethyl-8-piperazin-1-yl-7-(2-trifluoromethoxy-benzyl) -3,7-dihydro-purine-2,6-dionc.

- 4. (Previously presented) A compound according to claim 1 selected from the following:
- 1,3-Dimethyl-8-piperazin-1-yl-7-(2-trifluoromethylsulfanyl-benzyl) -3,7-dihydro-purine-2,6-dione,
- 4-(1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydro-purin-7-yl) -butyronitrile,
- (R) -7-Benzyl-8-(3-isopropylpiperazin-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- (S) -7-Benzyl-8-(3-isopropylpiperazin-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- 7-Benzyl-8-(6,9-diazaspiro[4.5]dec-9-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- 7-Benzyl-8-(piperazin-3-spiro-3'-bicyclo[2,2,1]heptane-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-methoxy-benzyl) -1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1,3-dimethyl-7-naphthalen-1-ylmethyl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-fluoro-benzyl) -1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1,3-dimethyl-7-(2-methyl-benzyl) -3,7-dihydro-purine-2,6-dione,
- 7-(2-Chloro-benzyl) -8-[1,4]diazepan-1-yl-1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- 7-(2-Bromo-benzyl) -8-[1,4]diazepan-1-yl-1,3-dlmethyl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1,3-dimethyl-7-(2-trifluoromethyl-benzyl) -3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1,3-dimethyl-7-(2-nitro-benzyl) -3,7-dihydro-purine-2,6-dione,
- 3-Benzyl-8-piperazin-1-yl-7-(2-trifluoromethyl-benzyl) -3,7-dihydro-purine-2,6-dione,
- 3,7-Dibenzyl-1-(2-hydroxy-ethyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 3-Benzyl-7-phenethyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 3,7-Dibenzyl-8-[1,4]diazepan-1-yl-3,7-dihydro-purine-2,6-dione, and
- 7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-3,7-dihydro-purine-2,6-dione.
- 5. (Previously presented) A compound according to claim 1 selected from the following:
- 3,7-Dibenzyl-8-[1,4]diazepan-1-yl-1-propyl-3,7-dihydro-purine-2,6-dione,
- 3,7-Dibenzyl-8-[1,4]dlazepan-1-yl-1-(2-hydroxy-ethyl) -3,7-dihydro-purine-2,6-dione,
- 2-(3,7-Dibenzyl-8-[1,4]diazepan-1-yl-2,6-dioxo-2,3,6,7-tetrahydro-purin-1-yl) -N,N-diethyl-acetamide.
- 1,3,7-Tribenzyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,

- 1,3,7-Tribenzyl-8-[1,4]diazepan-1-yl-3,7-dihydro-purine-2,6-dione,
- (S)-7-Benzyl-8-(3-benzyloxymethylpiperazin-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6dione,
- 3,7-Dibenzyl-8-piperazin-1-yl-1-propyl-3,7-dihydro-purine-2,6-dione,
- 3,7-Dibenzyl-8-[1,4]diazepan-1-yl-1-propyl-3,7-dihydro-purine-2,6-dione,
- 3,7-Dibenzyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 3,7-Dibenzyl-8-[1,4]diazepan-1-yl-3,7-dihydro-purine-2,6-dione,
- 2-(3-Benzyl-2,6-dioxo-8-piperazin-1-yl-1-propyl-1,2,3,6-tetrahydro-purin-7-ylmethyl) benzonitrile.
- 2-(3-Benzyl-8-[1,4]diazepan-1-yl-2,6-dioxo-1-propyl-1,2,3,6-tetrahydro-purin-7-ylmethyl) benzonitrile,
- 2-(3-Benzyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydro-purin-7-ylmethyl) -benzonitrile,
- 2-(3-Benzyl-8-[1,4]diazepan-1-yl-2,6-dioxo-1,2,3,6-tetrahydro-purin-7-ylmethyl) benzonitrile.
- 3-Benzyl-7-(2-iodo-benzyl) -8-piperazin-1-yl-1-propyl-3,7-dihydro-purine-2,6-dione,
- 3-Benzyl-8-[1,4]diazepan-1-yl-7-(2-lodo-benzyl) -1-propyl-3,7-dihydro-purine-2,6-dione,
- 3-Benzyl-7-(2-iodo-benzyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 3-Benzyl-8-[1,4]diazepan-1-yl-7-(2-iodo-benzyl) -3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-3-methyl-8-piperazin-1-yl-1-propyl-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-1-propyl-3,7-dihydro-purine-2,6-dione, and
- 7-Benzyl-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione.
- 6. (Previously presented) A compound according to claim 1 selected from the following:
- 7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-3,7-dihydro-purine-2,6-dione,
- 2-(3-Methyl-2,6-dioxo-8-piperazin-1-yl-1-propyl-1,2,3,6-tetrahydro-purin-7-ylmethyl) benzonitrile.
- 2-(8-[1,4]Diazepan-1-yl-3-methyl-2,6-dioxo-1-propyl-1,2,3,6-tetrahydro-purin-7-ylmethyl) benzonitrile,
- 2-(8-[1,4]Diazepan-1-yl-3-methyl-2,6-dioxo-1,2,3,6-tetrahydro-purin-7-ylmethyl) benzonitrile.

- 7-(2-lodo-benzyl) -3-methyl-8-piperazin-1-yl-1-propyl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl) -3-methyl-1-propyl-3,7-dihydro-purine-2,6-dione,
- 7-(2-Iodo-benzyl) -3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl) -3-methyl-3,7-dihydro-purine-2,6-dione,
- 3-Benzyl-8-[1,4]diazepan-1-yl-1-(3-hydroxy-propyl) -7-(2-iodo-benzyl) -3,7-dihydro-purine-2,6-dione,
- 3-Benzyl-8-[1,4]diazepan-1-yl-1-(2-ethoxy-ethyl) -7-(2-iodo-benzyl) -3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-1-(3-phenyl-allyl) -3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-1-(2-oxo-2-phenyl-ethyl) -3,7-dihydro-purine-2,6-dione,
- 2-(7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-2,6-dioxo-2,3,6,7-tetrahydro-purin-1-ylmethyl) benzonitrile,
- (7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-2,6-dioxo-2,3,6,7-tetrahydro-purin-1-yl) acetonitrile,
- 3-Methyl-7-(2-methyl-thiazol-4-ylmethyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-3-methyl-7-(2-methyl-thiazol-4-ylmethyl) -3,7-dihydro-purine-2,6-dione,
- 3-Methyl-7-(2-oxo-2-phenyl-ethyl) -8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-3-methyl-7-(2-oxo-2-phenyl-ethyl) -3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-3-methyl-7-phenethyl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1-(3-hydroxy-propyl) -7-(2-iodo-benzyl) -3-methyl-3,7-dihydro-purine-2,6-dione, and
- 1-(3-Hydroxy-propyl) -7-(2-iodo-benzyl) -3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione.
- 7. (Previously presented) A compound according to claim 1 selected from the following: 8-[1,4]Diazepan-1-yl-1-(2-ethoxy-ethyl) -7-(2-iodo-benzyl) -3-methyl-3,7-dihydro-purine-2,6-dione,

- 1-(2-Ethoxy-ethyl) -7-(2-iodo-benzyl) -3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione.
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl) -3-methyl-1-(2-phenoxy-ethyl) -3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl) -1-[2-(2-methoxy-ethoxy) -ethyl]-3-methyl-3,7-dihydro-purine-2,6-dione,
- 7-(2-lodo-benzyl) -1-[2-(2-methoxy-ethoxy) -ethyl]-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1-(3,5-dimethoxy-benzyl) -7-(2-iodo-benzyl) -3-methyl-3,7-dihydropurine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl) -1-(3-methoxy-benzyl) -3-methyl-3,7-dihydro-purine-2,6-dione,
- 7-Biphenyl-2-ylmethyl-8-[1,4]diazepan-1-yl-3-methyl-3,7-dihydro-purine-2,6-dione,
- 7-(2-Bromo-benzyl) -8-[1,4]diazepan-1-yl-3-methyl-3,7-dihydro-purine-2,6-dione,
- 7-(2-Chloro-benzyl) -8-[1,4]diazepan-1-yl-3-methyl-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-(3,5-dlmethyl-piperazin-1-yl) -1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- 7-(4-Methoxybenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- (1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydropurin-7-yl) -phenylacetic acid methyl ester,
- 7-(5-Chloro-2-nitrobenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 4-(1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydropurin-7-ylmethyl) benzonitrile,
- 7-(4-Methanesulfonylbenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 7-(2-Fluoro-6-nitrobenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 7-(4-Benzyloxybenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 7-(2,4-Dichlorobenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 1,3-Dimethyl-8-piperazin-1-yl-7-(4-trifluoromethylbenzyl) -3,7-dihydropurine-2,6-dione, and
- 7-Biphenyl-4-ylmethyl-1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione.
- 8. (Previously presented) A compound according to claim 1 selected from the following:

- 3-(1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydropurin-7-ylmethyl) benzoic acid methyl ester,
- 4-(1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydropurin-7-ylmethyl) benzoic acid methyl ester,
- 7-Biphenyl-2-ylmethyl-1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 7-(4-tert-Butylbenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 1,3-Dimethyl-8-piperazin-1-yl-7-(4-trifluoromethoxybenzyl) -3,7-dihydropurine-2,6-dione,
- 7-(3,4-Dichlorobenzyl) -1,3-dimethyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 1,3-Dimethyl-8-piperazin-1-yl-7-(4-[1,2,3]thiadiazol-4-ylbenzyl) -3,7-dihydropurine-2,6-dione.
- 4-(1,3-Dimethyl-2,6-dioxo-8-piperazin-1-yl-1,2,3,6-tetrahydropurin-7-ylmethyl) -3-methoxybenzoic acid methyl ester,
- 7-Cyclohexylmethyl-1,3-dimethyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-(2,5-diaza-bicyclo[2.2.1]hept-2-yl) -1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- 8-(6-Benzyl-[1,4]diazepan-1-yl) -7-(2-iodo-benzyl) -1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- (S) -7-Benzyl-8-(3-hydroxymethylpiperazin-1-yl) -1,3-dimethyl-3,7-dihydropurine-2,6-dione, 8-[1,4]Diazepan-1-yl-1,3-dimethyl-7-(2-oxo-2-pyrrolidin-1-yl-ethyl) -3,7-dihydro-purine-2,6-dione,
- 7-(2-lodo-benzyl)-1,3-dimethyl-8-(6-pyridin-2-ylmethyl-[1,4]diazepan-1-yl)-3,7-dihydropurine-2,6-dione,
- 7-(2-Bromo-benzyl)-1,3-dimethyl-8-(6-pyridin-2-ylmethyl-[1,4]diazepan-1-yl)-3,7-dihydro-purlne-2,6-dione,
- (S) 7-Benzyl-8-(3-benzyl-piperazin-1-yl)-1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-1,3-dimethyl-8-(3-phenethyl-piperazin-1-yl)-3,7-dihydro-purine-2,6-dione,
- (R)-7-Benzyl-8-(3-benzylpiperazin-1-yl)-1,3-dimethyl-3,7-dihydropurine-2,6-dione,
- 7-Benzyl-8-(3-(2-hydroxy-benzyl)-piperazin-1-yl)-1,3-dimethyl-3,7-dihydro-purine-2,6-dione, and
- 7-Benzyl-8-(3-(2-methoxy-benzyl)-piperazin-1-yl)1,3-dimethyl-3,7-dihydro-purine-2,6-dione.

- 9. (Previously presented) A compound according to claim I selected from the following:
- (R) 7-Benzyl-8-(3-(4-methoxy-benzyl)-piperazin-1-yl)1,3-dimethyl-3,7-dlhydro-purine-2,6-dione.
- (R)-7-Benzyl-8-(3-(4-hydroxy-benzyl)-piperazin-1-yl)-1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- (R)-7-Benzyl-1,3-dimethyl-8-(3-(4-nitro-benzyl)-piperazin-1-yl)-3,7-dihydro-purine-2,6-dione.
- (R)-7-Benzyl-8-(3-(4-fluoro-benzyl)-piperazin-1-yl)-1,3-dimethyl-3,7-dihydro-purine-2,6-dione,
- (R)-4-(4-(7-Benzyl-1,3-dimethyl-2,6-dioxo-2,3,6,7-tetrahydro-1H-purin-8-yl)-piperazin-2-ylmethyl)-benzonitrile,
- (R)-6-(8-(3-Benzyl-piperazin-1-yl)-1,3-dimethyl-2,6-dioxo-1,2,3,6-tetrahydro-purin-7-ylmethyl)-nicotinonitrile,
- (R)-7-Benzyl-1,3-dimethyl-8-(3-thiazol-4-ylmethyl-piperazin-1-yl)-3,7-dihydro-purine-2,6-dione,
- (R)-2-[1,3-Dimethyl-2,6-dioxo-8-(3-thiophen-2-ylmethyl-piperazin-1-yl)-1,2,3,6-tetrahydro-purin-7-ylmethyl]-benzonitrile,
- 7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-1-(tetrahydro-furan-2-ylmethyl)-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-1-(2-cyclohexyl-ethyl)-8-[1,4]diazepan-1-yl-3-methyl-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-1-(5-methyl-hexyl)-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-[1,4]diazepan-1-yl-3-methyl-1-(3-methyl-butyl)-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-[1,4]diazepan-1-yl-1-(2-ethoxy-ethyl)-3-methyl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-lodo-benzyl)-3-methyl-1-(tetrahydro-furan-2-ylmethyl)-3,7-dihydro-purine-2,6-dione,
- 7-(2-Iodo-benzyl)-3-methyl-8-piperazin-I-yl-1-(tetrahydro-furan-2-ylmethyl)-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl)-3-methyl-1-(tetrahydro-pyran-2-ylmethyl)-3,7-dihydro-purine-2,6-dione,

- 7-(2-Todo-benzyl)-3-methyl-8-piperazin-1-yl-1-(tetrahydro-pyran-2-ylmethyl)-3,7-dihydro-purine-2,6-dione,
- 7-(2-Iodo-benzyl)-3-methyl-1-(2-phenoxy-ethyl)-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione, and
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl)-1-(2-methoxy-ethyl)-3-methyl-3,7-dihydro-purine-2.6-dione.
- 10. (Previously presented) A compound according to claim 1 selected from the following: 7-(2-lodo-benzyl)-1-(2-methoxy-ethyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- I-(2-Benzyloxy-ethyl)-8-[1,4]diazepan-1-yl-7-(2-iodo-benzyl)-3-methyl-3,7-dihydro-purine-2,6-dione,
- 1-(2-Benzyloxy-ethyl)-7-(2-iodo-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 1-(3,5-Dimethoxy-benzyl)-7-(2-iodo-benzyl)-3-methyl-8-piperazîn-1-yl-3,7-dihydro-purine-2,6-dione,
- 7-(2-lodo-benzyl)-1-(3-methoxy-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl)-3-methyl-1-(3-trifluoromethoxy-benzyl)-3,7-dihydro-purine-2,6-dione,
- 7-(2-Iodo-benzyl)-3-methyl-8-piperazin-1-yl-1-(3-trifluoromethoxy-benzyl)-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1-(2-hydroxy-propyl)-7-(2-iodo-benzyl)-3-methyl-3,7-dihydro-purine-2.6-dione,
- 8-[1,4]Diazepan-1-yl-1-(2,2-diethoxy-ethyl)-7-(2-iodo-benzyl)-3-methyl-3,7-dihydro-purine-2,6-dion,
- 8-[1,4]Diazepan-1-yl-1-(2,2-dimethoxy-ethyl)-7-(2-iodo-benzyl)-3-methyl-3,7-dihydropurine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1-(2-[1,3]dioxolan-2-yl-ethyl)-7-(2-iodo-benzyl)-3-methyl-3,7-dihydro-purine-2,6-dione,

- l-(2-[1,3]Dioxolan-2-yl-ethyl)-7-(2-iodo-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione,
- 1-[1,3]Dioxolan-2-ylmethyl-7-(2-iodo-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1-(2-[1,3]dioxan-2-yl-ethyl)-7-(2-iodo-benzyl)-3-methyl-3,7-dihydro-purine-2,6-dione,
- 1-(2-[1,3]Dioxan-2-yl-ethyl)-7-(2-iodo-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydropurine-2,6-dione.
- 8-[1,4]Diazepan-1-yl-1-(2,3-dihydroxy-propyl)-7-(2-iodo-benzyl)-3-methyl-3,7-dihydropurine-2,6-dione,
- 1-(2,3-Dihydroxy-propyl)-7-(2-iodo-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione.
- 8-[1,4]Diazepan-1-yl-1-(3-hydroxy-2-methyl-propyl)-7-(2-iodo-benzyl)-3-methyl-3,7-dihydro-purine-2,6-dione,
- 1-(3-Hydroxy-2-methyl-propyl)-7-(2-iodo-benzyl)-3-methyl-8-piperazin-1-yl-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-7-(2-iodo-benzyl)-3-methyl-1-[3-(tetrahydro-pyran-2-yloxy)-propyl]-3,7-dihydro-purine-2,6-dione,
- 8-[1,4]Diazepan-1-yl-1-(2-fluoro-ethyl)-7-(2-iodo-benzyl)-3-methyl-3,7-dihydro-purine-2,6-dione,
- 7-Benzyl-8-[1,4]diazepan-1-yl-1-(3-hydroxy-propyl)-3-methyl-3,7-dihydro-purine-2,6-dione, and
- 7-Biphenyl-2-ylmethyl-8-[1,4]diazepan-1-yl-3-methyl-3,7-dihydro-purine-2,6-dione.